Translation of Category of Cited Documents in attached foreign language Search Report:

- X: particularly relevant if taken alone
- Y: particularly relevant if combined with another document of the same category
- A: relevant to at least one claim or as technological background
- O: non-written disclosure
- P: intermediate document
- T: theory or principle underlying the invention
- E: document entitled to a date prior to the filing date but which was not published until the filing date or a later date
- D: cited in the application
- L: cited for other reasons

<sup>&</sup>amp;: member of the same patent family, corresponding document



## **EUROPEAN SEARCH REPORT**

Application Number EP 02 29/2189

		DERED TO BE RELEVANT		
ategory	Citation of document with of relevant pas	indication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
(	SYSTEMS" VTC 2000-SPRING. 2: TECHNOLOGY CONFERE! JAPAN, MAY 15-18, 7 TECHNOLGY CONFERENCUS, vol. 3 OF 3. CONF 15 May 2000 (2000-000) XP000968309 ISBN: 0-7803-5719-1	ERROR IN MC-CDMA/TDD  DOO IEEE 51ST. VEHICULAR  NCE PROCEEDINGS. TOKYO,  2000, IEEE VEHICULAR  CE, NEW YORK, NY: IEEE,  . 51,  D5-15), pages 1773-1777,	1-9	H04L5/02 H04L1/06 H01Q3/26 H04L25/02
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	Place of search	Date of completion of the search		Examiner
1	MUNICH	16 January 2003	Agua	do Cortada, E
X : partic Y : partic docum A : techn O : non-	TEGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with anot nent of the same category ological background written disclosure nediate document	E : earlier patent dock after the filing date her D : document cited in L : document cited for	underlying the ir iment, but publis the application other reasons	nvention shed on, or

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## **EUROPEAN SEARCH REPORT**

Application Number EP 02 29 2189

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ategory	Citation of document with of relevant pa	indication, where ssages	e appropriate,	Relevant to claim	CLASSIFICATI APPLICATION	ION OF THE (Int.CI.7)
<b>(</b>	INCHEOL JEONG ET A with pre-phase sub asymmetric modulat channel" GLOBAL TELECOMMUNI GLOBECOM'99, 5 - 9 December 1 XP010373284 Rio de Janeiro, Br * page 124, equati * page 123, equati	carrier eq ion scheme CATIONS CO 999, pages azil on (4) *	ualizer usin in duplex NFERENCE	g   1-9		
	ZEKAVAT S A ET AL: Single Oscillating MC-CDMA: Transmit Diversity and Dire PROCEEDINGS OF IEE SYMPOSIUM ON BROAD INTERNET ERA, September 2001 (2: XP010575020 Dallas, TX, USA * page 107, right-1 *	-Beam Smar Diversity, ctionality E EMERGING BAND COMMUI	t Antenna and Frequency TECHNOLOGIES NICATIONS FOR		TECHNICAL F SEARCHED	IELDS (Int.CI.7)
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	Place of search		f completion of the search		Examiner	
CAT X : partice Y : partice docum A : techno O : non-v	TEGORY OF CITED DOCUMENTS  Ularly relevant if taken alone ularly relevant if combined with anol ent of the same category lological background vritten disclosure ediate document		D : document cite L : document cite	iple underlying the indocument, but publis date d in the application of for other reasons	shed on, or	

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